Fig. 1 Fab Host Computer 116 118 121. Memory 122 LPT Database 128 Controller 🗲 104 Processor 120 Tool Auto ID Contr. Network Controller K 114 Interface 106 100 124 Robot Controller K 108 Firewall 126 Prealigner <u>102</u> Controller K Internet 110 Minienvr. Controller

← 112 Field Service Management Office HQOn-line Collaboration

Title: DATA COLLECTION AND DIAGNOSTIC SYSTEM FOR A

Attorney: Scott D. Sanford

Telephone: 415-984-8700

Inventors: Christopher J. Barbazette et al. Docket No.: 34741-926

SEMICONDUCTOR FABRICATION FACILITY

Filed: July 11, 2003

Sheet 1 of 6

Express Mail No. EV328492762US

Title: DATA COLLECTION AND DIAGNOSTIC SYSTEM FOR A SEMICONDUCTOR FABRICATION FACILITY
Inventors: Christopher J. Barbazette et al. Place of the property of the

Fab View of Tool Status

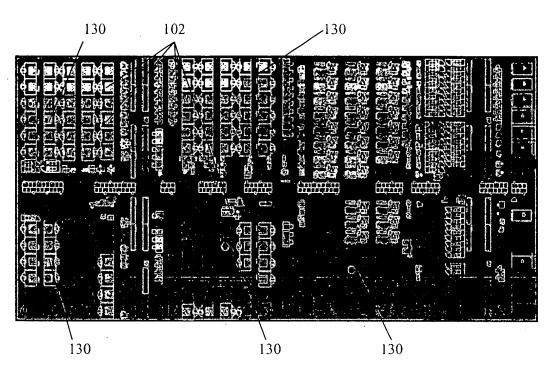


Fig. 2

Title: DATA COLLECTION AND DIAGNOSTIC SYSTEM FOR A SEMICONDUCTOR FABRICATION FACILITY
Inventors: Christopher J. Barbazette et al. Docket No.: 34741-926
Filed: July 11, 2003 Attorney: Scott D. Sanford
Express Mail No. EV328492762US Telephone: 415-984-8700

Sheet 3 of 6

Tool 24 Hour Performance History

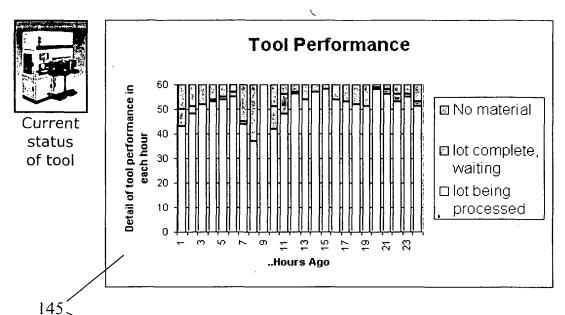


Fig. 3

		 	
		lot complete,	lot being _.
Time	No material	waiting	processed
-1	10	7	43
-2 -3	9	3	48
-3	8	0	52
-4	6	1	53
-4 -5	5	1	54
-6	3	. 2	55
-7	15	1	44
-8	23	0	37
-9	0	0	60
-10	9	9	42
-11	4	8	48
-12	3	1	56
-13	6	0	54
-14	3	0	57
-15	2	0	58
-16	6	0	54
	. 4	- 3	
		1	
	7	· •	
-17 -18 -19 -20 -21 -22 -23 -24	7 8 9 1 2 4 4 7	0 0 1 2 3 1 2	53 52 51 58 56 53 55 51

Title: DATA COLLECTION AND DIAGNOSTIC SYSTEM FOR A SEMICONDUCTOR FABRICATION FACILITY
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Sheet 4 of 6

Current Tool Status

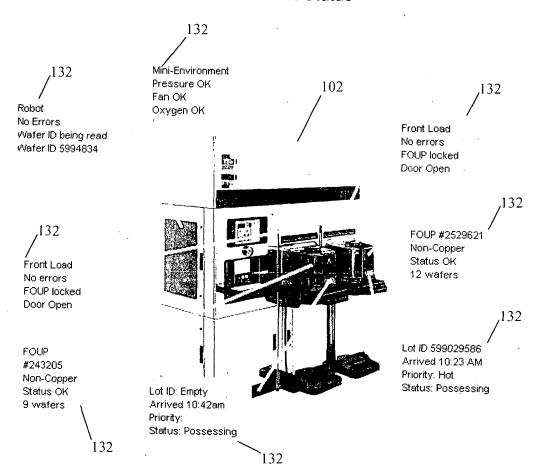


Fig. 4

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Sheet 5 of 6

Front Load Status



Series 3 Asyst Front Load Serial Number 998484 Software revision 1.0043 Installed 8-1-00

Total Cycles: 12,024

Last Error: 18:23 on 10-3-00

Error type: eafeaef Last Serviced: aeaveae

Next scheduled service: afesfaav

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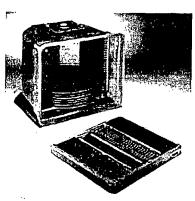
Fig. 5

Title: DATA COLLECTION AND DIAGNOSTIC SYSTEM FOR A SEMICONDUCTOR FABRICATION FACILITY Inventors: Christopher J. Barbazette et al. Docket No.: 34741-926

Filed: July 11, 2003
Express Mail No. EV328492762US

Docket No.: 34741-926 Attorney: Scott D. Sanford Telephone: 415-984-8700

FOUP Status



Sheet 6 of 6

Generation X Asyst 300mm SMIF Pod Serial Number 993822 Installed 8-1-00

Total Cycles: 6,832 Last Washed: 11-9-00

Next scheduled service: afesfaave

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Fig. 6